CONTENTS

Volume 6, Issue Nos. 1-4

SOFTWARE—PRACTICE & EXPERIENCE

Issue No. 1, JANUARY-MARCH

Guest Editorial	3
P. M. Neely: A New Programming Discipline	7
C. O. Grosse-Lindemann and H. H. Nagel: Postlude to a PASCAL-Compiler Bootstrap on a DECSystem-10	29
G. J. Nutt: Computer System Resource Requirements of Novice Programming	
Students	43
R. A. Earnshaw: Graph Plotting in ALGOL 68-R	51
S. J. Hague and B. Ford: Portability—Prediction and Correction	61
J. L. Schonfelder: The Production of Special Function Routines for a Multi- Machine Library	71
R. L. Lancaster and V. B. Schneider: Quick Compiler Construction Using Uniform	
Code Generators	83
R. F. Brunt and D. E. Tuffs: A User-Oriented Approach to Control Languages .	93
C. Bron and W. de Vries: A PASCAL Compiler for PDP 11 Minicomputers .	109
N. D. Peterson: Cobol generation of source programs and reports	117
Short Communications	133
Issue No. 2, APRIL-JUNE	
Guest Editorial	139
P. Brinch Hansen: The Solo Operating System: A Concurrent Pascal Program .	141
P. Brinch Hansen: The Solo Operating System: Job Interface	151
P. Brinch Hansen: The Solo Operating System: Processes, Monitors, and Classes	165
P. Brinch Hansen: Disk Scheduling at Compile Time	201
S. Feyock and P. Lazarus: Syntax-directed Correction of Syntax Errors	207
A. J. Guttmann: Multi-dimensional Summations in FORTRAN	221
R. M. McClure and R. L. Gauthier: Minivital: A Compiler Case Study	225
K. Sreenivasan: Application of Accounting Data in Evaluating Computer System	
Performance	239
D. R. Hanson: Variable Associations in SNOBOL4	245
M. Richards: JUMBO-A Demonstration Program to Illustrate the Use of BCPL	
in a Real-time Graphics Application Requiring Scaled Arithmetic	255
B. A. Wichmann and B. Jones: Testing ALGOL 60 Compilers	261
G. F. Coulouris, I. Durham, J. R. Hutchinson, M. H. Patel, T. Reeves and D. G.	
Winderbank: The Design and Implementation of an Interactive Document	
Editor	271
Short Communications	281

Issue No. 3, JULY-SEPTEMBER

Editorial	291
Michael J. Spier: Software Malpractice-A Distasteful Experience	293
J. M. Craddock: Designing a FORTRAN Based System for Meteorological Statistics	301
N. Newman and T. Lang: Documentation for Computer Users	321
W. F. C. Purser: The Design of a Real-time Operating System for a Minicomputer. Part II	327
W. H. Kaubisch, R. H. Perrott and C. A. R. Hoare: Quasiparallel Programming .	341
S. K. Shrivastava: Systematic Programming of Scheduling Algorithms	357
David L. Russell and Jeffrey Y. Sue: Implementation of a PASCAL Compiler for the IBM 360.	371
A. M. Lister and K. J. Maynard: An Implementation of Monitors	377
A. D. Heher: Some Features of a Real-time BASIC Executive	387
M. A. Sabin: Portability-Some Experiences with FORTRAN	393
M. Visvalingam: Indexing with Coded Deltas-A Data Compaction Technique .	397
Jacob Palme: Experience from the Standardization of the SIMULA Programming Language	405
David B. Wortman, Phillip J. Khaiat and David M. Laskar: Six PL/I Compilers .	411
P. J. Brown: Throw-away Compiling	423
Short Communications	435
Issue No. 4, OCTOBER-DECEMBER	
Guest Editorial	443
Helmut Hummel: LEKTOR—A List-oriented, Machine-independent Programming System for Conversational Applications	447
Israel Gat and Harry J. Saal: Memoryless Execution: A Programmer's Viewpoint.	463
Leon J. Osterweil and Lloyd D. Fosdick: DAVE—A Validation Error Detection and Documentation System for Fortran Programs	473
R. J. Cunningham and C. G. Pugh: A Language-independent System to Aid the Development of Structured Programs	487
James L. Elshoff: A Numerical Profile of Commercial PL/I Programs	505
D. Partridge and E. B. James: Compiling Techniques to Exploit the Pattern of	527
Language Use	
B. J. Austin, P. M. Ewens and R. H. Hudson: Linking a CYBER76 to a 3600.	541
Ben Schneiderman: A Review of Design Techniques for Programs and Data	555
M. J. Coleman, G. S. Godliman and G. L. Leonard: The Viscom—A System of 'Soft' Video-terminals	569
R. Loeser and E. M. Gaposchkin: The Second Law of Debugging	577
Short Communications	579
Volume Title Page	585
Volume Contents	587
Author Index	589
Key Words	591